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SEQUENCE LISTING

<110> ULLRICH, Axel  
NAYLER, Oliver

<120> CLK PROTEIN KINASES AND RELATED PRODUCTS AND METHODS

<130> 038602/0431

<140> US 09/127,248  
<141> 1998-07-31

<150> PCT/WO97/48723  
<151> 1997-12-24

<150> PCT/IB97/00946  
<151> 1997-06-17

<150> US 08/877,150  
<151> 1997-06-17

<150> US 60/034,286  
<151> 1996-12-19

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 Lys Ala Tyr His Ser Arg Arg Tyr Val Asp Glu Tyr Arg Asn Asp Tyr  
 65 70 75 80  
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 Leu Glu His Leu Asn Thr Thr Asp Pro His Ser Thr Phe Arg Cys Val  
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 Gln Met Leu Glu Trp Phe Glu His Arg Gly His Ile Cys Ile Val Phe  
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 340 345 350  
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 385 390 395 400  
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 420 425 430  
 Lys Pro Leu Lys Glu Phe Met Leu Ser Gln Asp Ala Glu His Glu Phe  
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 <213> Mus musculus

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 35 40 45  
 Asp Ser Tyr His Val Arg Ser Arg Ser Ser Tyr Asp Asp His Ser Ser  
 50 55 60  
 Asp Arg Arg Leu Tyr Asp Arg Arg Tyr Cys Gly Ser Tyr Arg Arg Asn  
 65 70 75 80





Ile Ile Phe Glu Tyr Tyr Val Gly Phe Thr Leu Phe Gln Thr His Asp  
 370 375 380  
 Asn Arg Glu His Leu Ala Met Met Glu Arg Ile Leu Gly Pro Val Pro  
 385 390 395 400  
 Ser Arg Met Ile Arg Lys Thr Arg Lys Gln Lys Tyr Phe Tyr Arg Gly  
 405 410 415  
 Arg Leu Asp Trp Asp Glu Asn Thr Ser Ala Gly Arg Tyr Val Arg Glu  
 420 425 430  
 Asn Cys Lys Pro Leu Arg Arg Tyr Leu Thr Ser Glu Ala Glu Asp His  
 435 440 445  
 His Gln Leu Phe Asp Leu Ile Glu Asn Met Leu Glu Tyr Glu Pro Ala  
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 Lys Arg Leu Thr Leu Gly Glu Ala Leu Gln His Pro Phe Phe Ala Cys  
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 50 55 60  
 Arg Asp Ser Asp Thr Tyr Arg Cys Glu Glu Arg Ser Pro Ser Phe Gly  
 65 70 75 80

Glu Asp Cys Tyr Gly Ser Ser Arg Ser Arg His Arg Arg Arg Ser Arg  
 85 90 95  
 Glu Arg Ala Pro Tyr Arg Thr Arg Lys His Ala His His Cys His Lys  
 100 105 110  
 Arg Arg Thr Arg Ser Cys Ser Ser Ala Ser Ser Arg Ser Gln Gln Ser  
 115 120 125  
 Ser Lys Arg Ser Ser Arg Ser Val Glu Asp Asp Lys Glu Gly His Leu  
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 Val Cys Arg Ile Gly Asp Trp Leu Gln Glu Arg Tyr Glu Ile Val Gly  
 145 150 155 160  
 Asn Leu Gly Glu Gly Thr Phe Gly Lys Val Val Glu Cys Leu Asp His  
 165 170 175  
 Ala Arg Gly Lys Ser Gln Val Ala Leu Lys Ile Ile Arg Asn Val Gly  
 180 185 190  
 Lys Tyr Arg Glu Ala Ala Arg Leu Glu Ile Asn Val Leu Lys Lys Ile  
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 Lys Glu Lys Asp Lys Glu Asn Lys Phe Leu Cys Val Leu Met Ser Asp  
 210 215 220  
 Trp Phe Asn Phe His Gly His Met Cys Ile Ala Phe Glu Leu Leu Gly  
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 Lys Asn Thr Phe Glu Phe Leu Lys Glu Asn Asn Phe Gln Pro Tyr Pro  
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 Leu Pro His Val Arg His Met Ala Tyr Gln Leu Cys His Ala Leu Arg  
 260 265 270  
 Phe Leu His Glu Asn Gln Leu Thr His Thr Asp Leu Lys Pro Glu Asn  
 275 280 285  
 Ile Leu Phe Val Asn Ser Glu Phe Glu Thr Leu Tyr Asn Glu His Lys  
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 385 390 395 400  
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35 40 45

Phe Lys Asp Ser Asp Cys His Tyr Leu Glu Ala Arg Cys Leu Asn Glu  
50 55 60  
Arg Asp Tyr Arg Asp Arg Arg Tyr Ile Asp Glu Tyr Arg Asn Asp Tyr  
65 70 75 80  
Cys Glu Gly Tyr Val Pro Arg His Tyr His Arg Asp Val Glu Ser Thr  
85 90 95  
Tyr Arg Ile His Cys Ser Lys Ser Ser Val Arg Ser Arg Arg Ser Ser  
100 105 110  
Pro Lys Arg Lys Arg Asn Arg Pro Cys Ala Ser His Gln Ser His Ser  
115 120 125  
Lys Ser His Arg Arg Lys Arg Ser Arg Ser Ile Glu Asp Asp Glu Glu  
130 135 140  
Gly His Leu Ile Cys Gln Ser Gly Asp Val Leu Arg Ala Arg Tyr Glu  
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165 170 175  
Ile Asp His Gly Met Asp Gly Leu His Val Ala Val Lys Ile Val Lys  
180 185 190  
Asn Val Gly Arg Tyr Arg Glu Ala Ala Arg Ser Glu Ile Gln Val Leu  
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Met Leu Glu Trp Phe Asp His His Gly His Val Cys Ile Val Phe Glu  
225 230 235 240  
Leu Leu Gly Leu Ser Thr Tyr Asp Phe Ile Lys Glu Asn Ser Phe Leu  
245 250 255  
Pro Phe Gln Ile Asp His Ile Arg Gln Met Ala Tyr Gln Ile Cys Gln  
260 265 270  
Ser Ile Asn Phe Leu His His Asn Lys Leu Thr His Thr Asp Leu Lys  
275 280 285  
Pro Glu Asn Ile Leu Phe Val Lys Ser Asp Tyr Val Val Lys Tyr Asn  
290 295 300  
Ser Lys Met Lys Arg Asp Glu Arg Thr Leu Lys Asn Thr Asp Ile Lys  
305 310 315 320  
Val Val Asp Phe Gly Ser Ala Thr Tyr Asp Asp Glu His His Ser Thr  
325 330 335

Leu Val Ser Thr Arg His Tyr Arg Ala Pro Glu Val Ile Leu Ala Leu  
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 Gly Trp Ser Gln Pro Cys Asp Val Trp Ser Ile Gly Cys Ile Leu Ile  
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 Glu Tyr Tyr Leu Gly Phe Thr Val Phe Gln Thr His Asp Ser Lys Glu  
 370 375 380  
 His Leu Ala Met Met Glu Arg Ile Leu Gly Pro Ile Pro Ala His Met  
 385 390 395 400  
 Ile Gln Lys Thr Arg Lys Arg Lys Tyr Phe His His Asn Gln Leu Asp  
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 Trp Asp Glu His Ser Ser Ala Gly Arg Tyr Val Arg Arg Arg Cys Lys  
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 Pro Leu Lys Glu Phe Met Leu Cys His Asp Glu Glu His Glu Lys Leu  
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 Phe Asp Leu Val Arg Arg Met Leu Glu Tyr Asp Pro Ala Arg Arg Ile  
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